Bruhath Bengalore mahanagara palike Dasarahalli Zone

Name of Work:Construction of Concrete Retaining Wall And Other Civil Works to Mallasandra Colony School In Ward No 13 Shettyhalli Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (P.No-6, I No-2.1 PWD SR 2018-19)								
	Over Burdem Earth	1	61.20	(4+3.5)/2	(5.0+4.2)/2	1055.70			
	RCC Retaining wall Footing	1	61.20	3.50	1.20	257.04			
	Pavement area	1	32.60	(4.6+2.25)/2	(0.65+.95)/2	100.48			
	Pavement area	1	16.20	(12.5+4.6)/2	(0.65+.95)/2	124.65			
	Column Footing	3	2.30	2.30	1.50	23.81			
	compound	1	2.00	0.60	0.60	0.72			
						1562.40	**Cum**	**268.92**	**420159.26**
	Basic Rate	249.00							
	Area Weightage 8%	19.92							
	Grand Total	**268.92**							
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2/ PWD SR 2018-19)								
	RCC Retaining wall Footing	1	61.20	3.50	0.15	32.13			
	Pavement area	1	16.20	(12.5+4.6)/2	0.15	20.77			
	Pavement area	1	32.60	(4.6+2.25)/2	0.15	16.75			
	Column Footing	3	2.30	2.30	0.15	2.38			
	compound	1	2.00	0.60	0.15	0.18			
						72.21	**Cum**	**5698.60**	**411498.48**
	Basic Rate	5194.00							
	Deduct Cement cost as per SR 18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5276.48**							
	Area Weightage 8%	422.12							
	Grand Total	**5698.60**							
3	Providing and constructing granite I trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.(I No-34.8.2,P No-255 PWD SR 2018-19)								
	Compound Foundation	1	2.00	0.45	0.45	0.41			
						0.41	**Cum**	**4992.02**	**2,021.77**
	Basic Rate	4596.00							
	Deduct Cement cost as per SR 18-19 Page No.V Sl.No.123	-343.44	Note:- (70*490.63/100)=343.44						
	Add Cement cost as per Issue rate	369.68	Note:- (70*264.06/50)=369.68						
		4622							
	Area Weightage 8%	370							

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	Grand Total	**4992.02**							
4	Providing and constructing granite /trap/ baslat size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications I No-34.9, P No-255 PWD SR 2018-19)								
	Compound basement	1	2.00	0.45	0.20	0.18			
						0.18	**Cum**	**5483.00**	**986.94**
	Basic Rate	5483.00							
	Deduct Cement cost as per SR 18-19 Page No.V Sl.No.389	-343.44	Note:- (70*490.63/100)=343.44						
	Add Cement cost as per Issue rate	369.68	Note:- (70*264.06/50)=369.68						
		5509.24							
	Area Weightage 8%	440.74							
	Grand Total	**5483.00**							
5	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:4 (I No-34.13.1,P No-256 PWD SR 2018-19)								
	Compound basement	2	2.00		0.20	0.80			
						0.80	**Sqm**	**151.20**	**120.96**
	Basic Rate	140.00							
	Area Weightage 8%	11.20							
	Grand Total	**151.20**							
6	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (I No-4.10,P No-14 PWD SR 2018-19)								
	Column Footing	3	2.00	2.00	0.45	5.40			
	Column	3	0.60	0.60	0.90	0.97			
	RCC Retaining wall Footing	1	61.20	3.20	1.00	195.84			
	RCC Retaining wall	1	46.20	(0.9+0.3)/2	4.75	131.67			
	RCC Retaining wall	1	15.00	(0.9+0.3)/3	4.50	40.50			
	Compound plinth	1	2.00	0.40	0.15	0.12			
	Column above R wall for compound	9	0.30	0.23	1.50	0.93			
						375.43	**Cum**	**6414.62**	**2408264.47**
	Basic Rate	5812.00							
	Deduct Cement cost as per SR 18-19 Page No.V Sl.No.123	-1668.14	Note:- (340*490.63/100)=1668.14						
	Add Cement cost as per Issue rate	1795.61	Note:- (340*264.06/50)=1795.61						
	Sub Total	**5939.47**							
	Area Weightage 8%	475.16							
	Grand Total	**6414.62**							
7	KSRB 4-6.4 :Providing and removing centering, shuttering, strutting, propping etc.,and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.No:4.31, P.No:16, SR 2018-19)								
	Column Footing	3x4	2.00		0.45	10.08			
	Column	3x4	0.60		0..75	5.40			
	RCC Retaining wall Footing side	2	61.20		1.00	122.40			
	RCC Retaining wall	2	46.20		4.75	438.90			
	RCC Retaining wall	2	15.00		4.50	135.00			
	Compound plinth	2	2.00		0.15	0.60			

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		Sqm				712.38	Sqm	386.64	275434.60
	Basic Rate	358.00							
	Area Weightage 8%	28.64							
	Grand Total	**386.64**							
8	KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-18 PWD SR 2018-19)								
	Plinth steel Main bars 4/12mm (0.89 kg/mtr)	4	2.00			7.12			
	Plinth Stirrups bars 8mm @ 200mm c/c (0.39 kg/mtr)	13	0.70			3.55			
	Footing Matt 12mm @200mm c/c both way (0.89 kg/mtr)	3x22	2.20			41.18			
	Footing for M S pillar 12/20 mm (2.46kg/mtr) H=1.35+0.3	3x12	1.80			101.74			
	Footing Stirrups bars 8mm @ 175mm c/c (0.39 kg/mtr)	3x9	2.20			18.02			
	Retaining wall Footing Main Bar 20mm @ 150mm c/c top & bottom	2x421	3.90			8078.15			
	Retaining wall Footing Ditr Bars 16mm @ 125mm c/c Top & bottom	2x25	62.9			4937.65			
	Suporting Chair 20mm @ every mt footing steel	63	4.8			743.90			
	Retaining wall main bars 16 mm @ 150mm c/c	2x382	5.6			6717.09			
	Retaining wall Ditr bars 12 mm @ 125mm c/c	2x41	63			4597.74			
	12mm U suport @ every 1m,	63	2.4			134.57			
						25380.71			
						25.38	**Tonne**	**76643.28**	**1945260.48**
	Basic Rate	70966.00							
	Area Weightage 8%	5677.28							
	Grand Total	**76643.28**							
9	KSRRB M2200- Providing **Weep Holes** KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (Pg 225 & Item no 28.10 PWD SR 2018-19)								
	For RCC Retaining wall	10	0.45			4.50			
		10	0.75			7.50			
						12.00	**Nos/mtr**	**158.76**	**1905.12**
	Basic Rate	147.00							
	Area Weightage 8%	11.76							
	Grand Total	**158.76**							
10	KSRRB M2200-9. Providing and laying of Filter media with granular materials /stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2504.2.2 (I No-28.13,P No-229 PWD SR 2018-19)								
	Retaining wall back	1	46.20	0.40	4.50	83.16			

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	Retaining wall back	1	15.00	0.40	3.80	22.80			
						105.84	Cum	2258.28	239016.36
	Basic Rate	2091.00							
	Area Weightage 8%	167.28							
	Grand Total	**2258.28**							
11	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **(I.No.5.26.2, P.No.27, SR:2018-19)**								
	For Compound Wall								
		1	2.00		1.20	2.40			
						2.40	Sqm	1000.69	2401.65
	Basic Rate	924.00							
	Deduct Cement cost as per SR 18-19	-36.21	Note:- (7.38*490.63/100)=36.21						
	Add Cement cost as per Issue rate	38.98	Note:- (7.38*264.06/50)=38.98						
	Area Weightage 8%	73.92							
	Grand Total	**1000.69**							
12	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications **(page No.113, Item No.15.15, SR:2018-19)**								
	For Compound Wall								
		1	2.00		2.40	4.80			
						4.80	Sqm	264.65	1270.32
	Basic Rate	245.00							
	Deduct Cement cost as per SR 18-19	-0.65	Note:- (.018*7.38*490.63/100)=36.21						
	Add Cement cost as per Issue rate	0.70	Note:- (7.38*264.06/50)=38.98						
	Area Weightage 8%	19.60							
	Grand Total	**264.65**							
13	Fabricating, supplying & erecting M.S. angular Truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 No's of M.S anchor Bolts at each Supports, with base plate and shoe plate. The work including cutting, straightening, placing in position of M.s Angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all mayterials, labour charges, & hire charges of machineries for cutting, welding, grinding, & erection equipments, etc,complete as per specification **(Page No. 43 Item No. 7.30 of SR 2018-19)**								
	For Mallasandra School								
	As per Drawing	Kg							
	R1 =172x92x5 -19.94kg/m	2x4	15.85			2528.39			
	R2= 80x60x3.2- 5.5kg/m verticle	4x30	0.456			300.96			
	R2= 80x60x3.2- 5.5kg/m Inclind	4x30	0.67			442.20			
	P1 Purlin 48x96x3.0 6.5kg/m	16	23.5			2444.00			
	N B 300, 8mm thick 52.3kg/m	3	5.5			862.95			
	Gusset plte 20mm 450x450mm, 157kg/Sqm	3x2	0.45	0.45		190.76			
	School back side for Dinning area								
	R1 =172x92x5.4 -20.88kg/m (for 6 No)	6	(7.5+5.5)/2			814.32			
	R1 =172x92x5.4 -20.88kg/m (For 3 truss)	2x3	12			1503.36			
	R2= 80x60x3.2- 5.5kg/m verticle	60	0.456			150.48			
	R2= 80x60x3.2- 5.5kg/m Inclind	60	0.67			221.10			
	P1 Purlin 48x96x3.0 6.50kg/m (5 Nos)	5	32.6			1059.50			
	P1 Purlin 48x96x3.0 6.50kg/m (avg)	5	16.2			526.50			
	P1 Purlin 48x96x3.0 6.50kg/m (avg)	4	8.5			221.00			
						11265.52	Kgs	138.24	1557345.07
	Basic Rate	128.00							

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	Area Weightage 8%	10.24							
	Grand Total	**138.24**							
14	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. **(P.No.299, I.No.38.30 of PWD SR 2018-19)**								
	For Mallasandra School	1	15.90	(26.5+20.5)/2		373.65			
		1	16.20	(7.5+15)/2		182.25			
		1	32.60	(7.5+5.5)/2		211.90			
						767.80	**Sqm**	**743.04**	**570506.11**
	Basic Rate	688.00							
	Area Weightage 8%	55.04							
	Grand Total	**743.04**							
15	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	Pavement	1	16.20	(6.3+13.8)/2	0.15	24.42			
		1	32.60	(6.3+4.0)/2	0.15	25.18			
	Slage	1	5.95	6.90	0.15	6.16			
						55.76	**Cum**	**5354.02**	**298530.89**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR 18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
16	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications with primer Page no 120, Item No 15.53.2, PWD SR 2018-19								
	wide Qty Same as Item No 12	5qm				4.80			
						4.80	**Sqm**	**110.16**	**528.77**
	Basic Rate	102.00							
	Area Weightage 8%	8.16							
	Total	**110.16**							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
17	KSRB 15-18.2: Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surfacebrushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. P 123, I No 15.74 SR 2018-19								
		Sqm							
	R1					27.69			
	R2					16.12			
	R2					24.01			
	P1					108.28			
	Pillar					15.54			
						191.64	Sqm	102.60	19662.26
	Basic Rate	95.00							
	Area Weightage 8%	7.60							
	Total	102.60							
					Construction cost				8155108.12
					KRIDL charge 3%				244653.24
					Cess charge 1%				81551.08
					Sub Total				8481312.44
					GST 12%				1017757.49
					Miscellanious				930.07
					Total cost				9500000.00
	NINETY FIVE LAKHS ONLY								

Certificate

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.
೬) ಸದರಿ ಸ್ಥಳದಲ್ಲಿ ೫೦% ಗಿಂತ ಹೆಚ್ಚಾಗಿ ಪ. ಜಾ. ಮತ್ತು ಪ. ಪಂಗಡದವರು ವಾಸವಾಗಿರುತ್ತಾರೆ.

Assistant Engineer
Ward No.13
BBMP Bangalore

Asst. Executive Engineer
Shettyhalli Sub Division
BBMP Bangalore

Executive Engineer 20/1/2020
Dasrahalli division
BBMP Bangalore

ADMINISTRATIVELY SANCTIONED FOR Rs. 95.00 Lakh
(Rupees Ninety five lakh only
Under the Head of Account P-1878-Works (Bhagyajothi Scav/Nerv. Poorna & General)
Registered as no EE(D.D.)/AS/197/19-20 Subject to conditions contained in Enclosed Memo No BBMP/EE/DDAY/197/19-20 Dt: 20/01/2020
Exe. Engg
(DASARAHALLI) BBMP 20/01/2020

Technically Sanctioned For Rs: 9500000/-
Rs. In Words Ninety five lakhs only
Under P1878-18 Per-works (Bhagyajothi
Job Code No 013-20-000068
Registered as SE No 06 /2019-20 subject to conditions contained in Enclosed Memo No SE/DZ/TS/06/19-20 Dt 27/01/2020
AEE TA SE

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